# 3 - SSB ban - MEPS

Sanjay Basu 5/30/2019

#### **MEPS 2015**

Based on: https://meps.ahrq.gov/mepstrends/hc\_cond/

```
temp <- tempfile()</pre>
  download.file("https://meps.ahrq.gov/mepsweb/data_files/pufs/h181ssp.zip",temp)
  FYC <- read.xport(unzip(temp))</pre>
  unlink(temp)
  year <- 2015
  if(year <= 2001) FYC <- FYC %% mutate(VARPSU = VARPSU15, VARSTR=VARSTR15)
  if(year <= 1998) FYC <- FYC %>% rename(PERWT15F = WTDPER15)
  if(year == 1996) FYC <- FYC %>% mutate(AGE42X = AGE2X, AGE31X = AGE1X)
  FYC <- FYC %>%
   mutate_at(vars(starts_with("AGE")),funs(replace(., .< 0, NA))) %>%
   mutate(AGELAST = coalesce(AGE15X, AGE42X, AGE31X))
## Warning: funs() is soft deprecated as of dplyr 0.8.0
## please use list() instead
## # Before:
## funs(name = f(.)
##
## # After:
## list(name = \sim f(.))
## This warning is displayed once per session.
 FYC\$ind = 1
# Employment Status
  if(year == 1996)
   FYC <- FYC %>% mutate(EMPST53 = EMPST96, EMPST42 = EMPST31 = EMPST1)
  FYC <- FYC %>%
   mutate_at(vars(EMPST53, EMPST42, EMPST31), funs(replace(., .< 0, NA))) %>%
   mutate(employ_last = coalesce(EMPST53, EMPST42, EMPST31))
  FYC <- FYC %>% mutate(
    employed = 1*(employ_last==1) + 2*(employ_last > 1),
    employed = replace(employed, is.na(employed) & AGELAST < 16, 9),</pre>
    employed = recode_factor(employed, .default = "Missing", .missing = "Missing",
     "1" = "Employed",
      "2" = "Not employed",
      "9" = "Inapplicable (age < 16)"))
```

```
# Keep only needed variables from FYC
FYCsub <- FYC %>% select(employed,ind, DUPERSID, PERWT15F, VARSTR, VARPSU)
```

### Load event files

```
temp <- tempfile()</pre>
  download.file("https://meps.ahrq.gov/mepsweb/data_files/pufs/h178assp.zip",temp)
  RX <- read.xport(unzip(temp))</pre>
  unlink(temp)
     temp <- tempfile()</pre>
  download.file("https://meps.ahrq.gov/mepsweb/data_files/pufs/h178bssp.zip",temp)
  DVT <- read.xport(unzip(temp))</pre>
  unlink(temp)
     temp <- tempfile()</pre>
  download.file("https://meps.ahrq.gov/mepsweb/data_files/pufs/h178dssp.zip",temp)
  IPT <- read.xport(unzip(temp))</pre>
  unlink(temp)
     temp <- tempfile()</pre>
  download.file("https://meps.ahrq.gov/mepsweb/data_files/pufs/h178dssp.zip",temp)
  IPT <- read.xport(unzip(temp))</pre>
  unlink(temp)
     temp <- tempfile()</pre>
  download.file("https://meps.ahrq.gov/mepsweb/data_files/pufs/h178essp.zip",temp)
  ERT <- read.xport(unzip(temp))</pre>
  unlink(temp)
     temp <- tempfile()</pre>
  download.file("https://meps.ahrq.gov/mepsweb/data_files/pufs/h178fssp.zip",temp)
  OPT <- read.xport(unzip(temp))</pre>
  unlink(temp)
  unlink(temp)
     temp <- tempfile()</pre>
  download.file("https://meps.ahrq.gov/mepsweb/data_files/pufs/h178gssp.zip",temp)
  OBV <- read.xport(unzip(temp))</pre>
  unlink(temp)
     temp <- tempfile()</pre>
  download.file("https://meps.ahrq.gov/mepsweb/data_files/pufs/h178hssp.zip",temp)
  HHT <- read.xport(unzip(temp))</pre>
  unlink(temp)
```

## Define sub-levels for office-based and outpatient

To compute estimates for these sub-events, replace 'event' with 'event\_v2X' in the 'svyby' statement below, when applicable

```
OBV <- OBV %>%
  mutate(event_v2X = recode_factor(
    SEEDOC, .default = 'Missing', .missing = "Missing", '1' = 'OBD', '2' = 'OBO'))
OPT <- OPT %>%
```

```
mutate(event_v2X = recode_factor(
    SEEDOC, .default = 'Missing', .missing = "Missing", '1' = '0PY', '2' = '0PZ'))
```

## Sum RX purchases for each event

```
RX <- RX %>%
  rename(EVNTIDX = LINKIDX) %>%
  group_by(DUPERSID,EVNTIDX) %>%
  summarise_at(vars(RXSF15X:RXXP15X),sum) %>%
  ungroup
```

# Stack events (dental visits and other medical not collected for events)

```
stacked_events <- stack_events(RX, IPT, ERT, OPT, OBV, HHT, keep.vars = c('SEEDOC', 'event_v2X'))
## Removing event keys...
## evnt_key is missing. Using 'RX'.
## evnt_key is missing. Using 'IP'.
## evnt_key is missing. Using 'ER'.
## evnt_key is missing. Using 'OP'.
## evnt_key is missing. Using 'OB'.
## evnt_key is missing. Using 'HH'.
## Adding total SOPs...
## Warning: Unknown columns: `LINKIDX`, `SEEDOC`, `event_v2X`
## Warning: Unknown columns: `LINKIDX`, `SEEDOC`, `event_v2X`
## Warning: Unknown columns: `LINKIDX`, `SEEDOC`, `event_v2X`
## Warning: Unknown columns: `LINKIDX`
## Warning: Unknown columns: `LINKIDX`
## Warning: Unknown columns: `LINKIDX`, `SEEDOC`, `event_v2X`
```

### Read in event-condition linking file

```
temp <- tempfile()
download.file("https://meps.ahrq.gov/mepsweb/data_files/pufs/h178if1ssp.zip",temp)
clink1 <- read.xport(unzip(temp))
unlink(temp)
clink1 = clink1 %>%
    select(DUPERSID,CONDIDX,EVNTIDX)
```

### Read in conditions file and merge with condition\_codes, link file

```
temp <- tempfile()
  download.file("https://meps.ahrq.gov/mepsweb/data_files/pufs/h180ssp.zip",temp)
  cond <- read.xport(unzip(temp))
  unlink(temp)

cond <- cond %>%
   select(DUPERSID, CONDIDX, CCCODEX) %>%
   mutate(CCS_Codes = as.numeric(as.character(CCCODEX))) %>%
   left_join(condition_codes, by = "CCS_Codes") %>%
   full_join(clink1, by = c("DUPERSID", "CONDIDX")) %>%
   distinct(DUPERSID, EVNTIDX, Condition, .keep_all=T)

## Warning: Column `DUPERSID` joining factors with different levels, coercing
## to character vector

## Warning: Column `CONDIDX` joining factors with different levels, coercing
## to character vector
```

## Merge events with conditions-link file and FYCsub

```
all_events <- full_join(stacked_events, cond, by=c("DUPERSID","EVNTIDX")) %>%
    filter(!is.na(Condition),XP15X >= 0) %>%
    mutate(count = 1) %>%
    full_join(FYCsub, by = "DUPERSID")

## Warning: Column `EVNTIDX` joining character vector and factor, coercing
## into character vector

## Warning: Column `DUPERSID` joining character vector and factor, coercing
## into character vector
```

### Sum by person, condition, across event

```
all pers <- all events %>%
  group_by(employed,ind, DUPERSID, VARSTR, VARPSU, PERWT15F, Condition, count) %>%
  summarize_at(vars(SF15X, PR15X, MR15X, MD15X, OZ15X, XP15X),sum) %>% ungroup
## Warning: Factor `Condition` contains implicit NA, consider using
## `forcats::fct_explicit_na`
PERSdsgn <- svydesign(
 id = ~VARPSU,
  strata = ~VARSTR,
 weights = ~PERWT15F,
 data = all_pers,
 nest = TRUE)
results <- svyby(~XP15X, by = ~Condition + employed, FUN = svymean, design = PERSdsgn)
print(results)
##
## Acute Bronchitis and URI. Employed
## Allergic reactions. Employed
## Anemia and other deficiencies. Employed
## Appendicitis.Employed
## Back problems. Employed
## Cancer.Employed
## Cataract.Employed
## Cerebrovascular disease. Employed
## Complications of pregnancy and birth. Employed
## Complications of surgery or device. Employed
## Congenital anomalies. Employed
## COPD, asthma. Employed
## Diabetes mellitus. Employed
## Disorders of mouth and esophagus. Employed
## Disorders of teeth and jaws. Employed
## Disorders of the upper GI. Employed
## Epilepsy and convulsions. Employed
## Female genital disorders, and contraception. Employed
## Gallbladder, pancreatic, and liver disease. Employed
## Glaucoma. Employed
## Headache. Employed
## Heart disease. Employed
## Hemorrhagic, coagulation, and disorders of White Blood cells. Employed
                                                                                          Hemorrhagic, co
                                                                                           Hereditary, de
## Hereditary, degenerative and other nervous system disorders. Employed
## Hernias.Employed
## Hyperlipidemia.Employed
## Hypertension. Employed
## Infectious diseases. Employed
## Influenza.Employed
## Intestinal infection. Employed
```

## Kidney Disease. Employed

```
## Male genital disorders. Employed
## Mental disorders. Employed
## Non-malignant breast disease. Employed
## Non-malignant neoplasm. Employed
## Normal birth/live born.Employed
## Osteoarthritis and other non-traumatic joint disorders. Employed
                                                                                                Osteoarth
## Other bone and musculoskeletal disease. Employed
## Other care and screening. Employed
## Other circulatory conditions arteries, veins, and lymphatics. Employed
                                                                                          Other circulato
## Other CNS disorders. Employed
## Other endocrine, nutritional & immune disorder. Employed
## Other eye disorders. Employed
## Other GI.Employed
## Other stomach and intestinal disorders. Employed
## Other urinary. Employed
## Otitis media. Employed
## Paralysis.Employed
## Perinatal Conditions. Employed
## Pneumonia.Employed
## Poisoning by medical and non-medical substances. Employed
## Residual Codes.Employed
## Skin disorders. Employed
## Symptoms. Employed
## Systemic lupus and connective tissues disorders. Employed
## Thyroid disease. Employed
## Tonsillitis.Employed
## Trauma-related disorders. Employed
## Urinary tract infections. Employed
## Acute Bronchitis and URI.Not employed
## Allergic reactions.Not employed
## Anemia and other deficiencies.Not employed
## Appendicitis.Not employed
## Back problems.Not employed
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## Glaucoma.Not employed
## Headache.Not employed
## Heart disease.Not employed
## Hemorrhagic, coagulation, and disorders of White Blood cells.Not employed
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## Hereditary, degenerative and other nervous system disorders.Not employed
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## Hernias.Not employed

## Hyperlipidemia.Not employed

```
## Hypertension.Not employed
## Infectious diseases.Not employed
## Influenza.Not employed
## Intestinal infection.Not employed
## Kidney Disease.Not employed
## Male genital disorders.Not employed
## Mental disorders.Not employed
## Non-malignant breast disease.Not employed
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## Other bone and musculoskeletal disease.Not employed
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## Other CNS disorders.Not employed
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## Skin disorders.Not employed
## Symptoms.Not employed
## Systemic lupus and connective tissues disorders.Not employed
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## Thyroid disease.Not employed
## Tonsillitis.Not employed
## Trauma-related disorders.Not employed
## Urinary tract infections.Not employed
## Acute Bronchitis and URI.Inapplicable (age < 16)
## Allergic reactions. Inapplicable (age < 16)
## Anemia and other deficiencies. Inapplicable (age < 16)
## Appendicitis.Inapplicable (age < 16)
## Back problems. Inapplicable (age < 16)
## Cancer.Inapplicable (age < 16)
## Complications of surgery or device. Inapplicable (age < 16)
## Congenital anomalies. Inapplicable (age < 16)
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## Diabetes mellitus. Inapplicable (age < 16)
## Disorders of mouth and esophagus. Inapplicable (age < 16)
## Disorders of teeth and jaws.Inapplicable (age < 16)
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## Epilepsy and convulsions. Inapplicable (age < 16)
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## Gallbladder, pancreatic, and liver disease. Inapplicable (age < 16)
## Headache.Inapplicable (age < 16)
## Heart disease. Inapplicable (age < 16)
## Hemorrhagic, coagulation, and disorders of White Blood cells. Inapplicable (age < 16) Hemorrhagic, co
## Hereditary, degenerative and other nervous system disorders. Inapplicable (age < 16)
                                                                                          Hereditary, de
## Hernias.Inapplicable (age < 16)
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```
## Hyperlipidemia.Inapplicable (age < 16)
## Hypertension.Inapplicable (age < 16)
## Infectious diseases.Inapplicable (age < 16)</pre>
## Influenza.Inapplicable (age < 16)
## Intestinal infection. Inapplicable (age < 16)
## Kidney Disease.Inapplicable (age < 16)
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## Thyroid disease. Inapplicable (age < 16)
## Tonsillitis.Inapplicable (age < 16)
## Trauma-related disorders. Inapplicable (age < 16)
## Urinary tract infections. Inapplicable (age < 16)
## Back problems.Missing
## Cancer.Missing
## Skin disorders.Missing
##
## Acute Bronchitis and URI. Employed
## Allergic reactions. Employed
## Anemia and other deficiencies. Employed
## Appendicitis. Employed
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## Congenital anomalies. Employed
## COPD, asthma. Employed
## Diabetes mellitus. Employed
## Disorders of mouth and esophagus. Employed
## Disorders of teeth and jaws. Employed
## Disorders of the upper GI. Employed
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```
## Epilepsy and convulsions. Employed
## Female genital disorders, and contraception. Employed
## Gallbladder, pancreatic, and liver disease. Employed
## Glaucoma.Employed
## Headache. Employed
## Heart disease. Employed
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## Back problems.Not employed
## Cancer.Not employed
## Cataract.Not employed
## Cerebrovascular disease.Not employed
## Complications of pregnancy and birth.Not employed
## Complications of surgery or device.Not employed
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## Congenital anomalies.Not employed

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## COPD, asthma.Not employed
## Diabetes mellitus.Not employed
## Disorders of mouth and esophagus.Not employed
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## Epilepsy and convulsions. Inapplicable (age < 16)
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## Infectious diseases. Inapplicable (age < 16)
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## Other CNS disorders.Inapplicable (age < 16)
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## Other eye disorders. Inapplicable (age < 16)
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## Paralysis.Inapplicable (age < 16)
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## Perinatal Conditions.Inapplicable (age < 16)
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## Pneumonia.Inapplicable (age < 16)
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## Poisoning by medical and non-medical substances. Inapplicable (age < 16)
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## Residual Codes.Inapplicable (age < 16)
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## Skin disorders.Inapplicable (age < 16)
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## Symptoms.Inapplicable (age < 16)
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\#\# Systemic lupus and connective tissues disorders.Inapplicable (age < 16)
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## Thyroid disease. Inapplicable (age < 16)
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## Tonsillitis.Inapplicable (age < 16)
                                                                                           Inapplicable (a
## Trauma-related disorders. Inapplicable (age < 16)
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## Urinary tract infections. Inapplicable (age < 16)
                                                                                           Inapplicable (a
## Back problems.Missing
## Cancer.Missing
## Skin disorders.Missing
##
                                                                                               XP15X
## Acute Bronchitis and URI. Employed
                                                                                             496.7787
```

##	Allergic reactions Employed	657.0549
	Allergic reactions.Employed Anemia and other deficiencies.Employed	819.0162
	Appendicitis.Employed	19154.2385
	Back problems.Employed	2194.8054
	Cancer.Employed	3549.2187
	Cataract.Employed	1471.2429
	Cerebrovascular disease.Employed	14411.3382
	Complications of pregnancy and birth. Employed	2928.1148
	Complications of surgery or device. Employed	5681.6283
	Congenital anomalies. Employed	7462.1264
	COPD, asthma.Employed	1212.9457
	Diabetes mellitus.Employed	2699.6961
	Disorders of mouth and esophagus. Employed	381.0485
	Disorders of teeth and jaws. Employed	232.0421
	Disorders of the upper GI.Employed	885.8209
	Epilepsy and convulsions. Employed	2731.4572
	Female genital disorders, and contraception. Employed	1114.5993
	Gallbladder, pancreatic, and liver disease. Employed	5309.7084
	Glaucoma. Employed	709.7756
##	Headache.Employed	1305.6699
##	Heart disease. Employed	3966.3818
##	Hemorrhagic, coagulation, and disorders of White Blood cells. Employed	1856.1316
##	Hereditary, degenerative and other nervous system disorders. Employed	7574.5077
##	Hernias.Employed	3751.9902
##	Hyperlipidemia. Employed	591.3942
##	Hypertension. Employed	566.0917
##	Infectious diseases.Employed	2453.7910
	Influenza.Employed	397.6891
##	Intestinal infection. Employed	1155.0810
	Kidney Disease.Employed	4497.3086
	Male genital disorders. Employed	1687.4360
	Mental disorders.Employed	1275.7888
	Non-malignant breast disease.Employed	1414.9282
	Non-malignant neoplasm. Employed	2236.0072
	Normal birth/live born.Employed	7653.6256
	Osteoarthritis and other non-traumatic joint disorders. Employed	1653.9216
	Other bone and musculoskeletal disease. Employed	1520.9833
	Other care and screening. Employed	573.8013
	Other circulatory conditions arteries, veins, and lymphatics. Employed	1908.6809
	Other CNS disorders. Employed	1704.8192
	Other endocrine, nutritional & immune disorder.Employed	1077.3901
	Other eye disorders. Employed Other GI. Employed	759.1449 3307.0661
	Other stomach and intestinal disorders. Employed	7826.4513
	Other urinary. Employed	1695.3564
	Otitis media.Employed	331.8157
	Paralysis.Employed	4228.4907
	Perinatal Conditions. Employed	165.6000
	Pneumonia.Employed	8871.7513
	Poisoning by medical and non-medical substances. Employed	1974.1216
	Residual Codes.Employed	1022.6697
	Skin disorders.Employed	1102.3434
	Symptoms. Employed	3069.8140
	Systemic lupus and connective tissues disorders. Employed	1423.9378

##	Thyroid disease. Employed	471.4307
	Tonsillitis. Employed	2416.5267
	Trauma-related disorders.Employed	2303.4229
	Urinary tract infections. Employed	630.2361
	Acute Bronchitis and URI.Not employed	413.5475
	Allergic reactions.Not employed	751.5097
	Anemia and other deficiencies.Not employed	1388.0762
	Appendicitis.Not employed	17225.7294
	Back problems.Not employed	2365.5832
	Cancer.Not employed	5389.1078
	Cataract.Not employed	1688.6376
	Cerebrovascular disease.Not employed	7148.9519
	Complications of pregnancy and birth.Not employed	2688.0712
	Complications of surgery or device.Not employed	4162.4816
	Congenital anomalies.Not employed	2692.8301
##	COPD, asthma.Not employed	2537.7227
##	Diabetes mellitus.Not employed	3836.4749
##	Disorders of mouth and esophagus.Not employed	522.2062
##	Disorders of teeth and jaws.Not employed	214.6769
##	Disorders of the upper GI.Not employed	1092.4163
##	Epilepsy and convulsions.Not employed	2881.5507
##	Female genital disorders, and contraception. Not employed	1174.0701
##	Gallbladder, pancreatic, and liver disease.Not employed	6367.6880
##	Glaucoma.Not employed	1087.1078
##	Headache.Not employed	966.8871
##	Heart disease.Not employed	4646.5878
##	Hemorrhagic, coagulation, and disorders of White Blood cells.Not employed	4814.1473
##	Hereditary, degenerative and other nervous system disorders.Not employed	7076.1937
##	Hernias.Not employed	2889.7973
##	Hyperlipidemia.Not employed	827.5501
##	Hypertension.Not employed	1003.3220
##	Infectious diseases.Not employed	4968.0783
	Influenza.Not employed	609.7485
	Intestinal infection.Not employed	6166.4356
	Kidney Disease.Not employed	8101.0315
	Male genital disorders.Not employed	847.9703
	Mental disorders.Not employed	2320.2322
	Non-malignant breast disease.Not employed	526.0195
	Non-malignant neoplasm.Not employed	1299.4752
	Normal birth/live born.Not employed	7432.8473
	Osteoarthritis and other non-traumatic joint disorders.Not employed	2231.2956
	Other bone and musculoskeletal disease.Not employed	1117.9109
	Other care and screening.Not employed	1368.0660
	Other circulatory conditions arteries, veins, and lymphatics.Not employed	3823.5720
	Other CNS disorders.Not employed	2198.1880
	Other endocrine, nutritional & immune disorder.Not employed	1447.7688
	Other eye disorders.Not employed	1210.9807
	Other GI.Not employed	1992.8909
	Other stomach and intestinal disorders.Not employed	7999.2709
	Other urinary.Not employed	1353.9356
	Otitis media.Not employed Paralysis.Not employed	431.7659
	Perinatal Conditions.Not employed	41510.0496 4.2200
	Pneumonia.Not employed	8424.6969
##	rneumonia.Not emproyed	0424.0909

```
## Poisoning by medical and non-medical substances.Not employed
                                                                                            2209.9133
## Residual Codes.Not employed
                                                                                            1511.7699
## Skin disorders.Not employed
                                                                                            1641.6206
## Symptoms.Not employed
                                                                                            1498.4670
## Systemic lupus and connective tissues disorders.Not employed
                                                                                            3259.2307
## Thyroid disease.Not employed
                                                                                             502.2475
## Tonsillitis.Not employed
                                                                                            2274.2101
## Trauma-related disorders.Not employed
                                                                                            3810.7273
## Urinary tract infections.Not employed
                                                                                            1299.5876
## Acute Bronchitis and URI.Inapplicable (age < 16)
                                                                                             252.7572
## Allergic reactions. Inapplicable (age < 16)
                                                                                             395.0554
## Anemia and other deficiencies. Inapplicable (age < 16)
                                                                                             261.7469
## Appendicitis.Inapplicable (age < 16)
                                                                                            9698.1851
## Back problems. Inapplicable (age < 16)
                                                                                            1307.0951
## Cancer.Inapplicable (age < 16)</pre>
                                                                                           16120.9952
## Complications of surgery or device. Inapplicable (age < 16)
                                                                                            1003.1680
## Congenital anomalies. Inapplicable (age < 16)
                                                                                            9775.8409
## COPD, asthma. Inapplicable (age < 16)
                                                                                             613.6622
## Diabetes mellitus. Inapplicable (age < 16)
                                                                                            5297.2076
## Disorders of mouth and esophagus. Inapplicable (age < 16)
                                                                                             360.0128
## Disorders of teeth and jaws. Inapplicable (age < 16)
                                                                                             640.0787
## Disorders of the upper GI.Inapplicable (age < 16)
                                                                                             656.0092
## Epilepsy and convulsions. Inapplicable (age < 16)
                                                                                            4139.8597
## Female genital disorders, and contraception. Inapplicable (age < 16)
                                                                                            1429.7958
## Gallbladder, pancreatic, and liver disease. Inapplicable (age < 16)
                                                                                            1054.7146
## Headache.Inapplicable (age < 16)
                                                                                             536.6824
## Heart disease.Inapplicable (age < 16)</pre>
                                                                                            9840.5596
## Hemorrhagic, coagulation, and disorders of White Blood cells. Inapplicable (age < 16)
                                                                                            3828.0822
## Hereditary, degenerative and other nervous system disorders. Inapplicable (age < 16)
                                                                                             504.3942
## Hernias. Inapplicable (age < 16)
                                                                                            1453.1178
## Hyperlipidemia.Inapplicable (age < 16)
                                                                                             129.8503
## Hypertension.Inapplicable (age < 16)
                                                                                            1262.5006
## Infectious diseases. Inapplicable (age < 16)
                                                                                             585.3970
## Influenza.Inapplicable (age < 16)</pre>
                                                                                             419.5122
## Intestinal infection. Inapplicable (age < 16)
                                                                                             261.2535
                                                                                            2670.9957
## Kidney Disease. Inapplicable (age < 16)
## Male genital disorders. Inapplicable (age < 16)
                                                                                             331.9187
## Mental disorders. Inapplicable (age < 16)
                                                                                            3422.5494
## Non-malignant breast disease. Inapplicable (age < 16)
                                                                                             823.6777
## Non-malignant neoplasm. Inapplicable (age < 16)
                                                                                             546.0086
## Normal birth/live born. Inapplicable (age < 16)
                                                                                            1862.6854
## Osteoarthritis and other non-traumatic joint disorders. Inapplicable (age < 16)
                                                                                            1800.8052
## Other bone and musculoskeletal disease. Inapplicable (age < 16)
                                                                                            2172.8239
## Other care and screening. Inapplicable (age < 16)
                                                                                             790.8571
## Other circulatory conditions arteries, veins, and lymphatics. Inapplicable (age < 16)
                                                                                            1179.5730
## Other CNS disorders.Inapplicable (age < 16)
                                                                                            1483.9504
## Other endocrine, nutritional & immune disorder. Inapplicable (age < 16)
                                                                                            3066.5659
## Other eye disorders. Inapplicable (age < 16)
                                                                                             425.7561
## Other GI.Inapplicable (age < 16)
                                                                                            1445.8381
## Other stomach and intestinal disorders. Inapplicable (age < 16)
                                                                                           13150.4322
## Other urinary.Inapplicable (age < 16)</pre>
                                                                                            1010.0399
## Otitis media.Inapplicable (age < 16)
                                                                                             361.3605
## Paralysis.Inapplicable (age < 16)
                                                                                           16753.9597
## Perinatal Conditions. Inapplicable (age < 16)
                                                                                            3990.9994
```

```
## Pneumonia.Inapplicable (age < 16)
                                                                                             743.6467
                                                                                             398.1459
## Poisoning by medical and non-medical substances. Inapplicable (age < 16)
## Residual Codes.Inapplicable (age < 16)
                                                                                            1424.5593
## Skin disorders.Inapplicable (age < 16)
                                                                                             516.0623
## Symptoms.Inapplicable (age < 16)
                                                                                             428.1254
## Systemic lupus and connective tissues disorders. Inapplicable (age < 16)
                                                                                            1313.1888
## Thyroid disease. Inapplicable (age < 16)
                                                                                             728.6741
## Tonsillitis.Inapplicable (age < 16)
                                                                                            1048.0131
## Trauma-related disorders. Inapplicable (age < 16)
                                                                                             944.8565
## Urinary tract infections. Inapplicable (age < 16)
                                                                                             631.7929
## Back problems.Missing
                                                                                            1914.5700
                                                                                           51180.4300
## Cancer.Missing
## Skin disorders.Missing
                                                                                              64.6800
##
## Acute Bronchitis and URI. Employed
                                                                                             149.55444
## Allergic reactions. Employed
                                                                                             167.40249
## Anemia and other deficiencies. Employed
                                                                                             259.20615
## Appendicitis. Employed
                                                                                            4882.10726
## Back problems. Employed
                                                                                             455.23092
## Cancer.Employed
                                                                                             601.61441
## Cataract.Employed
                                                                                             284.85231
## Cerebrovascular disease. Employed
                                                                                            6247.23837
## Complications of pregnancy and birth. Employed
                                                                                             714.54124
## Complications of surgery or device. Employed
                                                                                            4944.25797
## Congenital anomalies. Employed
                                                                                            3364.80936
## COPD, asthma. Employed
                                                                                             186.36871
## Diabetes mellitus. Employed
                                                                                             201.10473
## Disorders of mouth and esophagus. Employed
                                                                                             143.64409
## Disorders of teeth and jaws. Employed
                                                                                              86.06673
## Disorders of the upper GI. Employed
                                                                                              91.85383
## Epilepsy and convulsions. Employed
                                                                                             620.27004
## Female genital disorders, and contraception. Employed
                                                                                             126.83723
## Gallbladder, pancreatic, and liver disease. Employed
                                                                                             714.09145
## Glaucoma. Employed
                                                                                             101.93875
## Headache. Employed
                                                                                             269.76748
## Heart disease. Employed
                                                                                             537.46375
## Hemorrhagic, coagulation, and disorders of White Blood cells. Employed
                                                                                             762.96014
## Hereditary, degenerative and other nervous system disorders. Employed
                                                                                            2934.33374
## Hernias.Employed
                                                                                             738.07415
## Hyperlipidemia.Employed
                                                                                              34.10532
## Hypertension. Employed
                                                                                              35.69530
## Infectious diseases. Employed
                                                                                             923.57402
## Influenza.Employed
                                                                                             107.24468
## Intestinal infection. Employed
                                                                                             483.00275
## Kidney Disease. Employed
                                                                                             603.68113
                                                                                             268.28532
## Male genital disorders. Employed
## Mental disorders. Employed
                                                                                              88.46883
## Non-malignant breast disease. Employed
                                                                                             329.97445
## Non-malignant neoplasm.Employed
                                                                                             719.76488
## Normal birth/live born. Employed
                                                                                             851.69799
## Osteoarthritis and other non-traumatic joint disorders. Employed
                                                                                             176.59068
## Other bone and musculoskeletal disease. Employed
                                                                                             430.27766
## Other care and screening. Employed
                                                                                              52.45099
## Other circulatory conditions arteries, veins, and lymphatics. Employed
                                                                                             353.48492
```

		200 00705
	Other CNS disorders.Employed	309.03785
	Other endocrine, nutritional & immune disorder. Employed	151.80527
	Other eye disorders. Employed	92.55612
	Other GI. Employed	2179.97127
	Other stomach and intestinal disorders. Employed	1630.16625
	Other urinary. Employed	386.62113
	Otitis media.Employed	63.38952
	Paralysis.Employed	1003.55883
	Perinatal Conditions. Employed	0.00000
	Pneumonia.Employed	5529.61654
	Poisoning by medical and non-medical substances. Employed	697.61340
	Residual Codes.Employed	141.81116
	Skin disorders. Employed	137.57685
	Symptoms. Employed	1844.82641
	Systemic lupus and connective tissues disorders. Employed	167.02899
	Thyroid disease. Employed	74.55646
	Tonsillitis.Employed	1095.75654
	Trauma-related disorders.Employed	188.89681
	Urinary tract infections.Employed	111.71961
	Acute Bronchitis and URI.Not employed	61.29302
	Allergic reactions.Not employed	162.74369
	Anemia and other deficiencies.Not employed	332.17294
##	Appendicitis.Not employed	4329.83222
	Back problems.Not employed	237.42745
	Cancer.Not employed	690.59156
	Cataract.Not employed	190.13497
	Cerebrovascular disease.Not employed	1254.13866
##	Complications of pregnancy and birth.Not employed	1526.67969
##	Complications of surgery or device.Not employed	1294.08378
##	Congenital anomalies.Not employed	810.92442
##	COPD, asthma.Not employed	195.13998
##	Diabetes mellitus.Not employed	230.79416
##	Disorders of mouth and esophagus.Not employed	177.80037
##	Disorders of teeth and jaws.Not employed	37.57652
##	Disorders of the upper GI.Not employed	151.54561
##	Epilepsy and convulsions.Not employed	624.59573
##	Female genital disorders, and contraception. Not employed	275.09542
##	Gallbladder, pancreatic, and liver disease.Not employed	1342.94265
##	Glaucoma.Not employed	105.53676
##	Headache.Not employed	122.61856
##	Heart disease.Not employed	454.42428
##	Hemorrhagic, coagulation, and disorders of White Blood cells. Not employed	2401.74487
		3086.74826
##	Hernias.Not employed	792.17798
	Hyperlipidemia.Not employed	53.56784
	Hypertension.Not employed	87.10061
	Infectious diseases.Not employed	1351.72379
	Influenza.Not employed	112.08836
	Intestinal infection.Not employed	2313.80793
	Kidney Disease.Not employed	1842.34381
	Male genital disorders.Not employed	142.30664
	Mental disorders.Not employed	148.32975
	Non-malignant breast disease.Not employed	102.35237
	Non-malignant neoplasm.Not employed	394.12459

```
865.74197
## Normal birth/live born.Not employed
## Osteoarthritis and other non-traumatic joint disorders.Not employed
                                                                                            182,00076
## Other bone and musculoskeletal disease. Not employed
                                                                                            161.56042
## Other care and screening.Not employed
                                                                                            200.49294
## Other circulatory conditions arteries, veins, and lymphatics.Not employed
                                                                                            562.31374
## Other CNS disorders.Not employed
                                                                                            285.56233
## Other endocrine, nutritional & immune disorder.Not employed
                                                                                            296.20015
## Other eye disorders.Not employed
                                                                                             98.84180
## Other GI.Not employed
                                                                                            313.83735
## Other stomach and intestinal disorders.Not employed
                                                                                           2826.14981
## Other urinary.Not employed
                                                                                            185.71408
## Otitis media.Not employed
                                                                                            119.85400
## Paralysis.Not employed
                                                                                          22524.62113
## Perinatal Conditions.Not employed
                                                                                              0.00000
## Pneumonia.Not employed
                                                                                           1113.66892
## Poisoning by medical and non-medical substances.Not employed
                                                                                           1069.90750
## Residual Codes.Not employed
                                                                                            205.33898
## Skin disorders.Not employed
                                                                                            206.63702
## Symptoms.Not employed
                                                                                            194.79876
## Systemic lupus and connective tissues disorders.Not employed
                                                                                            339.43898
## Thyroid disease.Not employed
                                                                                             78.13368
## Tonsillitis.Not employed
                                                                                           1176.49890
## Trauma-related disorders.Not employed
                                                                                            335.74678
## Urinary tract infections.Not employed
                                                                                            190.04014
## Acute Bronchitis and URI.Inapplicable (age < 16)
                                                                                             15.82350
## Allergic reactions. Inapplicable (age < 16)
                                                                                             62.10408
## Anemia and other deficiencies. Inapplicable (age < 16)
                                                                                            115.80821
## Appendicitis.Inapplicable (age < 16)
                                                                                           1612.71193
## Back problems.Inapplicable (age < 16)</pre>
                                                                                            416.70949
## Cancer.Inapplicable (age < 16)</pre>
                                                                                          13473.98042
## Complications of surgery or device. Inapplicable (age < 16)
                                                                                            679.87001
## Congenital anomalies. Inapplicable (age < 16)
                                                                                           6508.52721
## COPD, asthma. Inapplicable (age < 16)
                                                                                             63.42572
## Diabetes mellitus.Inapplicable (age < 16)
                                                                                           2448.42427
## Disorders of mouth and esophagus. Inapplicable (age < 16)
                                                                                            131.91018
## Disorders of teeth and jaws. Inapplicable (age < 16)
                                                                                            360.00175
## Disorders of the upper GI.Inapplicable (age < 16)
                                                                                            238.05999
## Epilepsy and convulsions. Inapplicable (age < 16)
                                                                                           1906.72455
## Female genital disorders, and contraception. Inapplicable (age < 16)
                                                                                           1202.48402
## Gallbladder, pancreatic, and liver disease. Inapplicable (age < 16)
                                                                                            580.77186
## Headache.Inapplicable (age < 16)
                                                                                            187.98727
## Heart disease.Inapplicable (age < 16)</pre>
                                                                                           6681.22136
## Hemorrhagic, coagulation, and disorders of White Blood cells. Inapplicable (age < 16)
                                                                                           1941.31060
## Hereditary, degenerative and other nervous system disorders. Inapplicable (age < 16)
                                                                                            279.63192
## Hernias.Inapplicable (age < 16)
                                                                                            714.43232
## Hyperlipidemia.Inapplicable (age < 16)
                                                                                             13.19383
## Hypertension.Inapplicable (age < 16)
                                                                                            575.66210
## Infectious diseases. Inapplicable (age < 16)
                                                                                            172.82089
## Influenza.Inapplicable (age < 16)</pre>
                                                                                            175.28358
## Intestinal infection. Inapplicable (age < 16)
                                                                                             36.95950
## Kidney Disease.Inapplicable (age < 16)
                                                                                           1103.58771
## Male genital disorders. Inapplicable (age < 16)
                                                                                            117.68786
## Mental disorders.Inapplicable (age < 16)
                                                                                            398.77075
## Non-malignant breast disease. Inapplicable (age < 16)
                                                                                            204.02600
```

```
## Non-malignant neoplasm. Inapplicable (age < 16)
                                                                                             152.31138
## Normal birth/live born.Inapplicable (age < 16)
                                                                                             749.51191
## Osteoarthritis and other non-traumatic joint disorders. Inapplicable (age < 16)
                                                                                             684.33343
## Other bone and musculoskeletal disease. Inapplicable (age < 16)
                                                                                            1107.78202
## Other care and screening. Inapplicable (age < 16)
                                                                                             166.38888
## Other circulatory conditions arteries, veins, and lymphatics. Inapplicable (age < 16)
                                                                                             798.66736
## Other CNS disorders.Inapplicable (age < 16)
                                                                                             396.95352
## Other endocrine, nutritional & immune disorder.Inapplicable (age < 16)
                                                                                            1139.35886
## Other eye disorders. Inapplicable (age < 16)
                                                                                             118.76880
## Other GI.Inapplicable (age < 16)</pre>
                                                                                             918.90745
## Other stomach and intestinal disorders. Inapplicable (age < 16)
                                                                                            2959.43633
## Other urinary.Inapplicable (age < 16)
                                                                                             354.34678
## Otitis media.Inapplicable (age < 16)
                                                                                              37.56148
## Paralysis.Inapplicable (age < 16)</pre>
                                                                                            6270.64341
## Perinatal Conditions.Inapplicable (age < 16)
                                                                                            1370.66398
## Pneumonia.Inapplicable (age < 16)</pre>
                                                                                             161.85352
## Poisoning by medical and non-medical substances. Inapplicable (age < 16)
                                                                                             104.55560
## Residual Codes. Inapplicable (age < 16)
                                                                                             663.67866
## Skin disorders.Inapplicable (age < 16)
                                                                                             137.79314
## Symptoms.Inapplicable (age < 16)
                                                                                              82.28922
## Systemic lupus and connective tissues disorders. Inapplicable (age < 16)
                                                                                             429.23188
## Thyroid disease. Inapplicable (age < 16)
                                                                                             320.34455
## Tonsillitis.Inapplicable (age < 16)
                                                                                             229.27941
## Trauma-related disorders. Inapplicable (age < 16)
                                                                                             113.88434
## Urinary tract infections. Inapplicable (age < 16)
                                                                                             355.64017
## Back problems.Missing
                                                                                               0.00000
## Cancer.Missing
                                                                                               0.00000
## Skin disorders.Missing
                                                                                               0.00000
```